

80

Project No. _____
Book No. _____

TITLE

23 mer degradation: V, OV, TnC
buffers: Cheng vs. Vent vs. Klenow

From Pag. No. _____

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

Cheng buffer 5X 20 →
10x Klenow buffer * 10 →
Vent buffer 10

2 2 -

Taq storage buffer Mg OAc 12 mM 9.5 →

1.2 μ l →

Mg SO4 100 mM glycerol 50%

16 -

DMSO 100%

32 P 23 mer ** 3 μ l →

Vent pol 0.05 μ l 2 2 2 2 2
Deep Vent 0.05 μ l 2 2 2 2 2
TnC 0.5 μ l 2 2 2 2 2

H2O 6.5 → 81.8 91.8 83.8 85 → 69 →

Vp = 100 μ l

Preheat to 70°C, start by addition of DNA pol
remove 10 μ l to 5 μ l cycle stop mix at 10, 20, 30 min
well #1 is 23 mer uncut

Witness d & Underst od by me,

Deborah Polkay

Date

11/29/94

Invented by

Record d by

Date

11-4-94

T Pag

Page N. _____

(14) (15)

✓
✓
✓

✓ ← (note Klenow system relies on Tag storage buffer for glycerol and Tween/TNP40 - for TnC it is diluted in Tag storage buffer so no supplement is needed for Vent and Deep Vent dilution is in storage buffer (with Triton and 50% glycerol)

✓ (1.2 mM MgSO₄ (f))

✓ (1.2 mM MgSO₄ (f))

✓ CF = 8% glycerol

→ ✓ CF = 2% DMSO

→ ✓

2 } dilute in Vent/Deep Vent storage/dilution buffer (its 0.1% Triton)
2 } (dilute in Tag storage buffer) so CF = 0.002% Triton

→ ✓

will include
2 μl Tag storage
buffer host tube
(similar to 7.7 μl
storage buffer with
0.5% Tween/TNP40)

3 μl, 0.66 pm 13.5 μl (8.9 pmol)

23 μl ~~5.5 μl~~ 16.8 μl (25 pmol)

6 pmol 1/20 24.7 μl ~~1 μl~~

5.5 μl

3.8 μl
0.66 pmol primers

* * for ³²P 23mer uses ³²P 23mer of P7
plus 16.8 μl cold 5'3/1 23mer plus
24.7 μl H2O. so, VP = 5 μl and specific
activity is reduced ~~1/2~~ \times $\sqrt{2}$

CF = 3.60 mM primers

* 10 x Klenow is 50 mM Tris HCl pH 7.
160 mM (NH₄)₂SO₄ and no MgSO₄

To Page No. _____

Signed & Understood by me,

Date

Invented by

Date

Signature

11/29/94

Recorded by

11-4-94